

### Homework - Equationpalooza

1. Combine the following fractions into a single fraction. Express each of your answers in lowest terms.

(a)  $\frac{27}{5} + \frac{3y}{4}$

(b)  $\frac{4m}{5} - \frac{2}{3}$

(c)  $2 + \frac{x}{3}$

(d)  $\frac{x}{2} + \frac{2x}{3} - \frac{3x}{4}$

2. Solve the following for  $x$ : (a)  $\frac{x}{2} + \frac{x}{5} = 6$  (b)  $\frac{x}{3} + \frac{x+1}{6} = 4$

3. Solve the following for  $x$ :

(a)  $4 - (x + 3) = 8 - 5(2x - 3)$

(b)  $x - 2(3 - x) = 2x + 3(1 - x)$

4. Solve for  $x$ : (a)  $2(x - 1) = 3(x + 2)$  (b)  $-4(2x - 2) = 3(x + 1)$

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